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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/471,964	12/23/1999	CYNTHIA L. BICKERSTAFF	10559/096001	8158

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[REDACTED] EXAMINER

BOUTAH, ALINA A

ART UNIT	PAPER NUMBER
2143	7

DATE MAILED: 12/27/2002

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	<b>Applicant No.</b>	<b>Applicant(s)</b>	
	09/471,964	BICKERSTAFF ET AL.	
	<b>Examiner</b>	<b>Art Unit</b>	
	Alina N Boutah	2143	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

#### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

- 1) Responsive to communication(s) filed on \_\_\_\_\_.
  - 2a) This action is **FINAL**.                    2b) This action is non-final.
  - 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.
- Disposition of Claims**
- 4) Claim(s) 1-9, 11-19 and 21-29 is/are pending in the application.
  - 4a) Of the above claim(s) 10, 11 and 20 is/are withdrawn from consideration.
  - 5) Claim(s) \_\_\_\_\_ is/are allowed.
  - 6) Claim(s) 1-9, 11-19 and 21-29 is/are rejected.
  - 7) Claim(s) \_\_\_\_\_ is/are objected to.
  - 8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on 23 December 1999 is/are: a) accepted or b) objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) The proposed drawing correction filed on \_\_\_\_\_ is: a) approved b) disapproved by the Examiner.  
If approved, corrected drawings are required in reply to this Office action.
- 12) The oath or declaration is objected to by the Examiner.

#### Priority under 35 U.S.C. §§ 119 and 120

- 13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) All
  - b) Some \*
  - c) None of:
    1. Certified copies of the priority documents have been received.
    2. Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.
- 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
  - a) The translation of the foreign language provisional application has been received.
- 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

#### Attachment(s)

- |   |   |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)                   | 4) <input type="checkbox"/> Interview Summary (PTO-413) Paper No(s). _____. |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)          | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____. | 6) <input type="checkbox"/> Other: _____.                                   |

## **DETAILED ACTION**

### ***Election/Restrictions***

Applicant's election without traverse of Invention A: claims 1-19, 11-19, and 21-29 in Paper No. 6 is acknowledged.

### ***Drawings***

The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5) because they include the following reference sign(s) not mentioned in the description: 204 and 206 of figure 2, and 402 and 404 of figure 4. A proposed drawing correction, corrected drawings, or amendment to the specification to add the reference sign(s) in the description, are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

### ***Claim Rejections - 35 USC § 112***

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 1, 11, and 21 are rejected under 35 U.S.C. 112, first paragraph, as containing subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention. Although, "time bin" was mentioned several times in the specification, it is still

uncertain as to what purpose it is used, or whether it solves a stated problem. An explanation is requested.

***Claim Rejections - 35 USC § 102***

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) do not apply to the examination of this application as the application being examined was not (1) filed on or after November 29, 2000, or (2) voluntarily published under 35 U.S.C. 122(b). Therefore, this application is examined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

Claims 1, 3-5, 11, 13-15, 21, and 23-25 are rejected under 35 U.S.C. 102(e) as being anticipated by USPN 6,148,335 issued to Haggard et al.

Regarding claims 1, 11, and 21, Haggard et al. teach a method (claim 1), a system (claim 11), and a computer program (claim 21) for real-time measurement of the performance of communications on a large area network between a selected server and a plurality of users, based upon actual user experience, including:

(a) accessing a server log having records of actual user access to the selected server (Abstract);

(b) aggregating records from the server log into a plurality of aggregate slots, each having at least one time bin, based on an aggregation method (col. 7, lines 23-44);

(c) performing at least one statistical analysis of each time bin of each aggregate slot (col. 7, lines 23-44); and

(d) outputting the results of such statistical analysis as an indication of actual server usage by users (Abstract; col. 2, lines 51-67 – col. 3, lines 1-6; col. 7, lines 23-44; figure 5).

Regarding claims 3, 13, and 23, Haggard et al. teach the method of claim 1, the system of claim 11, and the computer program of claim 21, further including generating an event notification if a selected statistical analysis value is abnormal (figures 6A-B; col. 7, lines 61-67 – col. 8, lines 1-16).

Regarding claims 4, 14, and 24, Haggard et al. teach the method of claim 1, the system of claim 11, and the computer program of claim 21, further including selecting the aggregation method from a set of aggregation methods (col. 7, lines 23-44).

Regarding claims 5, 15, and 25, Haggard et al. teach the method of claim 1, the system of claim 11, and the computer program of claim 21, wherein the aggregation method includes aggregation by log-file record column data value for each record from the server log (col. 6, lines 61-67 – col. 7, lines 1-15).

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 2, 6, 7, 12, 16, 17, 22, 26 and 27 are rejected under 35 U.S.C. 103(a) as being unpatentable over Haggard et al. in view of USPN 6,317,787 issued to Boyd et al.

Regarding claims 2, 12, and 22, Haggard et al. fail to teach the method of claim 1, the system of claim 11, and the computer program of claim 21, further including filtering out selected records from the server log before the step of aggregating. Boyd et al. teach filtering out selected records from the server log (figures 6 and 7, no. 64). At the time the invention was made, it would have been obvious to one of ordinary skill in the art to filter out selected records from the server before the step of aggregating in order to remove unwanted records that will not be analyzed, thus improving the speed in making performance analysis.

Regarding claims 6, 16, and 26, Haggard et al. teach the method of claim 1, the system of claim 11, and the computer program of claim 21, further including: selecting an aggregation method to aggregate records (col. 7, lines 23-44). However, Haggard et al. fail to teach:

(e) determining geographical or source information for each record; and  
(f) selecting the aggregation method to aggregate records based on such geographical or source information.

Boyd et al. teach (e) determining geographical or source information for each record (col. 3, lines 48-59; col. 4, lines 26-45; col. 5, lines 66-67 – col. 6, lines 1-10). At the time the

invention was made, it would have been obvious to one of ordinary skill in the art to select the aggregation method to aggregate records based on source information (f) in order to analyze and produce statistical reports and summaries by way of user activity (col. 4, lines 64-67 – col. 5, lines 1-5).

Regarding claims 7, 17, and 27, Haggard et al. fail to teach the method of claim 1, the system of claim 11, and the computer program of claim 21, the method of claim 6, the system of claim 16, and the computer program of claim 26, wherein determining geographical or source information for each record includes:

- (g) defining a database comprising large area network address blocks having geographical or source information;
- (h) comparing an address field in each record to the address blocks in the database; and
- (i) associating with each record the geographical or source information from an address block matching the address field of the record.

Boyd et al. teach: (g) defining a database comprising large area network address blocks having geographical or source information (col. 4, lines 40-45).

Although Boyd et al. do not expressly teach (h) comparing an address field in each record to the address blocks in the database; and (i) associating with each record the geographical or source information from an address block matching the address field of the record, Boyd et al. teach a method of using analysis results collected into a log file or database for building geographic and other summaries (col. Lines 40-45). In order to determine geographical or source information, it is obvious that an address (e.g. IP address) can be somehow compared to a

pre-defined address in a database that contains geographical or source information, once found, the addresses can be associated together, thus providing a geographic information.

At the time the invention was made, it would have been obvious to one of ordinary skill in the art to employ (g), (h), and (i) to determine geographical or source information in order to analyze and produce statistical reports and summaries by way of user activity (col. 4, lines 64-67 – col. 5, lines 1-5).

Claims 8, 18, and 28 are rejected under 35 U.S.C. 103(a) as being unpatentable over Haggard et al. in view of USPN 5,946,679 issued to Ahuja et al.

Regarding claims 8, 18, and 28, Haggard et al. fail to teach the method of claim 7, the system of claim 17, and the computer program of claim 27, wherein comparing an address field in each record to the address blocks in the database includes:

- (j) defining an array of binary trees for the address blocks in the database, each address block within a binary tree within an array element being masked by a corresponding unique subnet mask value;
- (k) masking each address field in each record by a unique subnet value corresponding to a selected array element;
- (l) comparing each masked address field to an address field of the address blocks within the binary tree of the selected array element;
- (m) outputting selected fields of any matching address block; and
- (n) otherwise, continuing the step of comparing with a next selected array element until a match if found or all array elements have been compared.

Ahuja et al. teach:

(j) defining an array of binary trees for the address blocks in the database, each address block within a binary tree within an array element being masked by a corresponding unique subnet mask value (col. 3, lines 10-16);

although Ahuja et al. do not explicitly teach (k) masking each address field in each record by a unique subnet value corresponding to a selected array element, it is well known in the art that all network addresses such as IP address has a subnet mask associated with it;

(l) comparing each masked address field to an address field of the address blocks within the binary tree of the selected array element (col. 3, lines 15-20);

(m) outputting selected fields of any matching address block (col. 3, lines 17-20); and

(n) otherwise, continuing the step of comparing with a next selected array element until a match if found or all array elements have been compared (col. 3, lines 17-20).

At the time the invention was made, it would have been obvious to one of ordinary skill in the art to employ (j) – (n) in order to facilitate geographical information determination, thus facilitating user's usage statistical analysis.

Claims 9, 19, and 29 are rejected under 35 U.S.C. 103(a) as being unpatentable over Haggard et al. in view of USPN 4,967,345 issued to Clarke et al.

Regarding claims 9, 19, and 29, Haggard et al. teach the method of claim 1, the system of claim 11, and the computer program of claim 21, including a statistical analysis of records from a server log and responding to performance data that surpasses an associated threshold (Abstract).

However, Haggard et al. fail to further teach:

(o) determining exit routing paths from each selected server based on the records from the server log;

(p) determining a best performing exit route based on the statistical analysis of records from the server log;

(q) biasing incoming and outgoing communications with respect to each server to use the determined best performing exit route.

Clarke et al. teach determining a best route through a network from one node to another (Abstract; col. 2, lines 4-11). At the time the invention was made, it would have been obvious to one of ordinary skill in the art to combine the teaching of Clark et al. (best route) and the teaching of Haggard et al. (records from server log) in order to allow the administrator to monitor and regulate network traffic, thus improving the network communications performance.

### ***Conclusion***

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

1. USPN 6,230,204 issued to Fleming, III, Hoyt A.
2. USPN 6,317,786 issued to Yamane et al.
3. USPN 6,477,523 issued to Chiang, Kuorong
4. USPN 5,913,041 issued to Ramanathan et al.
5. USPN 6,438,537 issued to Netz et al.
6. USPN 5,812,780 issued to Chen et al.
7. USPN 5,793,976 issued to Chen et al.

8. USPN 6,112,238 issued to Boyd et al.
9. USPN 5,892,917 issued to Myerson, Terry J.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Alina N Boutah whose telephone number is (703) 305-5104. The examiner can normally be reached on Monday-Friday (8:30 am-5:30 pm).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David A Wiley can be reached on (703) 308-5221. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 746-9112 for regular communications and (703) 305-3718 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-3900.

*ANB*  
ANB  
December 23, 2002



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